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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,411	12/03/2001	Franklin Zhigang Zhang		3112
7590 03/06/2008 Franklin ZhiGang Zhang 4717 Spencer Street			EXAMINER	
			ABELSON, RONALD B	
Torrance, CA 90503		•	ART UNIT	PAPER NUMBER
			2619	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
•	10/006,411	ZHANG, FRANKLIN ZHIGANG	
Office Action Summary	Examiner	Art Unit	
	RONALD ABELSON	2619	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 136(a). In no event, however, may a repl will apply and will expire SIX (6) MONTH te, cause the application to become ABAN	ATION. y be timely filed  IS from the mailing date of this communication.  IDONED (35 U.S.C. § 133).	
Status		•	
1)⊠ Responsive to communication(s) filed on 14 3 2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi 3)□ Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matter	·	
Disposition of Claims			
4) Claim(s) 28-49 is/are pending in the application 4a) Of the above claim(s) is/are withdrage 5) Claim(s) is/are allowed. 6) Claim(s) 28-49 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or contact the specification is objected to by the Examin	or election requirement.	Ron abelen Primary Examiner	
10)⊠ The drawing(s) filed on <u>03 March 2006</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)□ The oath or declaration is objected to by the E	e drawing(s) be held in abeyance ction is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority document</li> <li>* See the attached detailed Office action for a list</li> </ul>	ats have been received.  ats have been received in Apportity documents have been reau (PCT Rule 17.2(a)).	olication No eceived in this National Stage	
	·		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/I	nmary (PTO-413) Mail Date rmal Patent Application	

Application/Control Number: 10/006,411 Page 2

Art Unit: 2619

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 30-48 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "client operation function" as recited in independent claims 30 and 36 is not defined in the specification.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2619

4. Claims 28 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dowling US (2005/0170824) in view of Sridhar (US 2001/0047421).

Regarding claims 28 and 49, Dowling teaches one server means (fig. 1 box 125) running on Internet (fig. 1 box 122);

a plurality of wireless Access Points (APs) with Internet connection (fig. 1 box 150), providing wireless networking access;

a plurality of Personal Mobile Access Device (PMAD) (fig. 1 box 105, mobile unit 105 may be a hand-held cellular phone or wireless data device, [0026]) with wireless networking capability for getting wireless Internet access via said AP (mobile unit 105 leaves subnetwork, system level handoff assisted by server 125 is needed, [0034]);

the Aps have a dedicated port for Internet connection (fig. 1 connection 113, [0031]).

the APs communicating with the server means via Internet (fig. 1 box 150, 122, 125, link 113, network server sends signals to the mobile unit and the local area wireless access

Art Unit: 2619

point to cause mobile unit and local area wireless access point to initiate communication, [0050]);

said PMAD is personal mobile communication device with user and media interfaces, and wireless networking means to communicate with said Aps (fig. 1 box 105, mobile unit 105 may be a hand-held cellular phone or wireless data device, [0026]);

the PMAD access Internet wirelessly through the AP and communicate with the server means via Internet (fig. 1 box 150, 122, 125, link 113, network server sends signals to the mobile unit and the local area wireless access point, [0050]);

the server means enables the PMADs to join communication over Internet connection with server means (fig. 1 box 150, 122, 125, link 113, network server sends signals to the mobile unit and the local area wireless access point, [0050]);

the PMADs access the Internet wirelessly through the Aps and join the server means for communication (fig. 1 box 150, 122, 125, link 113, network server sends signals to the mobile unit and the local area wireless access point, [0050]), and join the server means for communication among each other of the PMADs (fig. 1 box 105, mobile unit 105 may be a hand-held cellular phone or wireless data device, [0026]). Note, although only one hand-held cellular phone / wireless data device is shown in the

Art Unit: 2619

figure, it is obvious that a plurality exist and they may communicate with each other;

wherein said IBWCS forming virtual communication paths among said PMADs and said server means over the Internet, whereby messages are communicated among said PMADs and server means via said virtual communication paths (virtual private network, [0028], virtual, [0076]).

The PMADs communicating with each other via the server means and the Internet (fig. 1 box 105, mobile unit 105 may be a hand-held cellular phone or wireless data device, [0026]).

Dowling is silent on the server means enables and, controls the PMAD to PMAD communication over Internet and a key element in said virtual communication paths said server means guarantees the PMAD to PMAD communication over Internet without message loss by storing and resending communication message to ensure message delivery.

Sridhar, like Dowling teaches TCP (Sridhar: [0079],

Dowling: [0052]). Furthermore, Sridhar teaches a server means

enables and, controls the PMAD to PMAD communication over

Internet and a key element in said virtual communication paths

Page 6

Application/Control Number: 10/006,411

Art Unit: 2619

said server means guarantees the PMAD to PMAD communication over Internet without message loss by storing and resending communication message to ensure message delivery (remote server determines packet is lost, remote server retransmits that packet, [0079]).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of Dowling by having the server of Dowling (fig. 1 box 125) retransmit lost packets, as shown by Sridhar. This modification can be performed by adhering to TCP protocol. This modification would benefit the system by guaranteeing communication without packet loss.

Regarding claim 29, one of said PMAD can roam among the wireless access of said APs around Internet and communicate with said server means and other PMADs (Dowling: mobile unit 105 leaves subnetwork, system level handoff assisted by server 125 is needed, [0034]).

### Response to Arguments

5. Applicant's arguments filed 1/14/08 have been fully considered but they are not persuasive.

Art Unit: 2619

Regarding the 112 rejection, the term "client operation function" is defined neither in the specification nor the claims.

Regarding the applicant's contention that server 125 only provides initial wireless resource information for the mobile unit to access the wireless network (applicant: pg. 14 last paragraph), the examiner disagrees. Dowling explicitly teaches three methods of communication. The mobile unit is connected to a first antenna 110 which is used to maintain a first network connection 112 [0027], the mobile unit is also optionally coupled to a satellite antenna 140 [0030], and the mobile unit 105 is also optionally coupled to a local area network 145 [0031]).

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this

Page 8

Art Unit: 2619

action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RONALD ABELSON whose telephone number is (571)272-3165. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7439. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2619

Page 9

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Ronald Abelson Primary Examiner Art Unit 2619

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